

IRAK-M Polyclonal Antibody

Catalog No :	YT2393
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	IRAK-M
Fields :	>>Neurotrophin signaling pathway
Gene Name :	IRAK3
Protein Name :	Interleukin-1 receptor-associated kinase 3
Human Gene Id :	11213
Human Swiss Prot No :	Q9Y616
Mouse Swiss Prot No :	Q8K4B2
Immunogen :	The antiserum was produced against synthesized peptide derived from human IRAK3. AA range:491-540
Specificity :	IRAK-M Polyclonal Antibody detects endogenous levels of IRAK-M protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 68kD

Cell Pathway :[Apoptosis_Inhibition](#); [Apoptosis_Mitochondrial](#); [Apoptosis_Overview](#); [Neurotrophin](#);**Background :**

This gene encodes a member of the interleukin-1 receptor-associated kinase protein family. Members of this family are essential components of the Toll/IL-R immune signal transduction pathways. This protein is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. Mutations in this gene are associated with a susceptibility to asthma. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2010],

Function :

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:Ser-293 is present instead of the conserved Asp which is expected to be an active site residue. Low level autophosphorylation activity has been reported in PubMed:10383454, while other authors describe this as an inactive kinase.,cofactor:Magnesium.,disease:Defects in IRAK3 are associated with susceptibility to asthma-related traits type 5 (ASRT5) [MIM:611064]. Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing, dyspnea, bronchial hyperresponsiveness as assessed by methacholine challenge test, serum IgE levels, atopy, and atopic dermatitis.,function:Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex.,similarity:Belongs to the protein kinase superfamily. TK

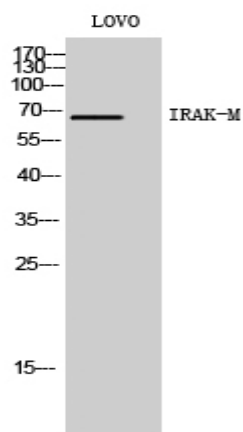
Subcellular Location :

Cytoplasm . Nucleus . In dendritic cells, translocates into the nucleus upon IL33 stimulation. .

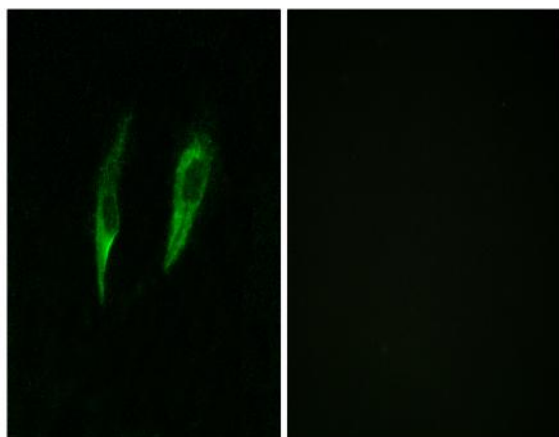
Expression :

Expressed in eosinophils, dendritic cells and/or monocytes (at protein level) (PubMed:29686383). Expressed predominantly in peripheral blood lymphocytes (PubMed:10383454).

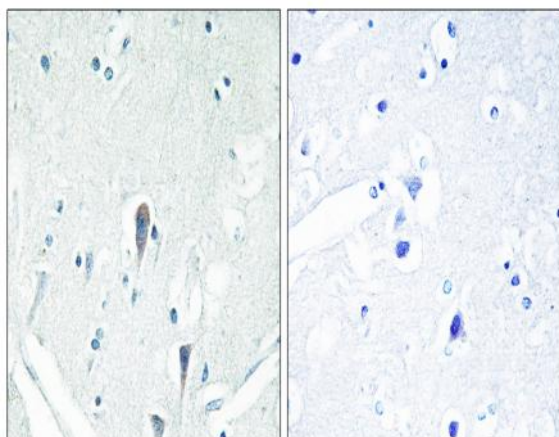
Products Images



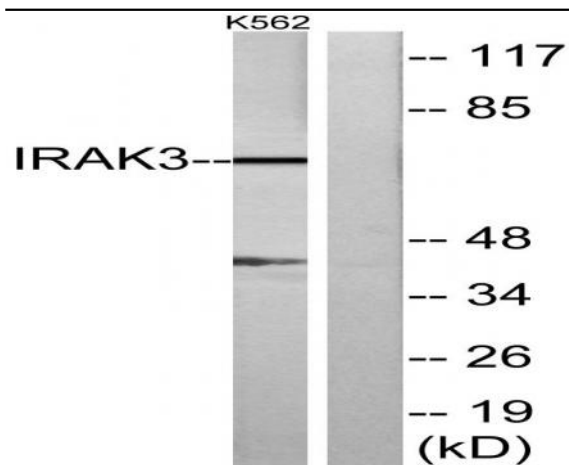
Western Blot analysis of LOVO cells using IRAK-M Polyclonal Antibody



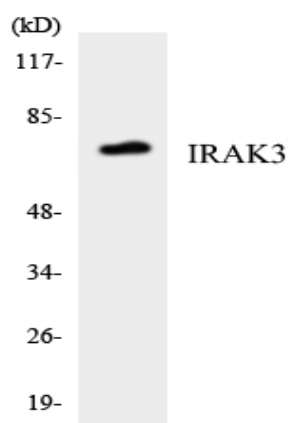
Immunofluorescence analysis of HeLa cells, using IRAK3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using IRAK3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using IRAK3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using IRAK3 antibody.